

The background of the slide features a vibrant blue sky with wispy white clouds. A bright rainbow is visible on the left side, its colors reflecting on the surface of a deep blue ocean. The overall scene is serene and expansive.

# **Pavement Markings Research**

# Pavement Marking Research

- We have been collecting data about the life cycle of pavement markings for +/- 8 years

# Pavement Marking Research

- Currently, North Carolina State University is studying the durability (life cycle) of our pavement markings



# Pavement Marking Research

- Findings so far...



111907\_12-29 [14 JAC 107 NORTH WE]

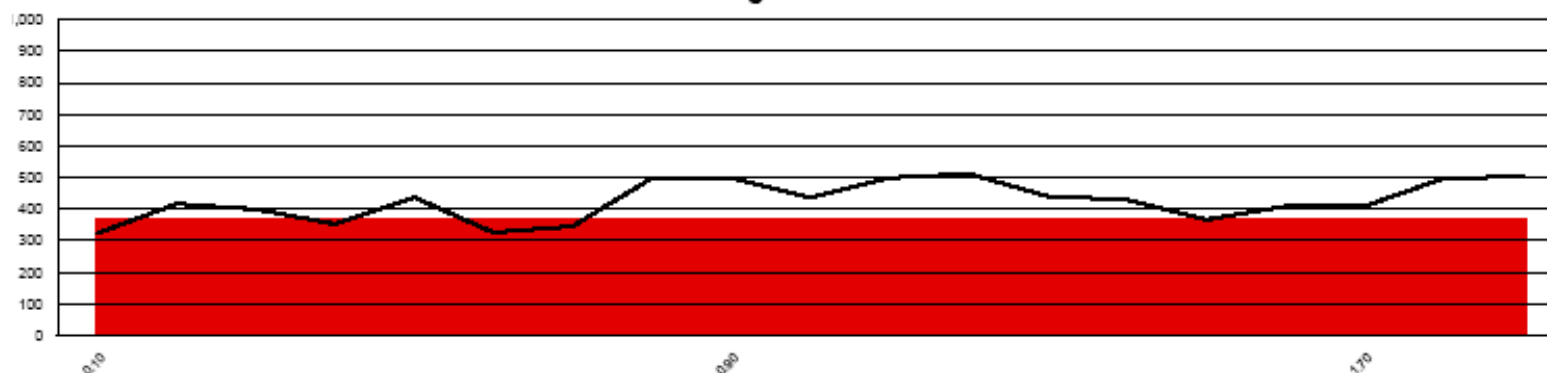
District: 14  
County: Jackson  
Route: NC 107  
Direction: North

Start: NC 116  
End: US 23 Business

Type of Line: White Edge  
Material: Polyurea  
Bead: Standard  
Surface: Asphalt  
Run RL Avg: 421  
Run Date: 11/19/2007

>= 374 **Passing**  
< 374 **Falling**  
✓ =LTL-X Verified

## Average Station RL



MP	Avg RL		MP	Avg RL		MP	Avg RL		MP	Avg RL		MP	Avg RL	
0.1	324	3	1.1	499	3									
0.2	417	3	1.2	512	3									
0.3	399	3	1.3	440	3									
0.4	353	3	1.4	430	3,9									
0.5	437	3	1.5	386	3									
0.6	326	3	1.6	409	3									
0.7	346	3	✓ 1.7	409	387 (5.38%)									
0.8	498	3	1.8	497	3									
0.9	499	3	1.9	503	1,3									
1.0	436	3												

I=Invalid, 1=Thermo, 2=Epoxy, 3=Polyurea, 4=Paint, 5=Hot Spray, 6=Poor Tracing, 7=Tracking, 8=Broken Pymet, 9=Dirt/Deb/H2O, 10=Adhesion, 11=Tape

# Service Life

Category	Minimum Standard (mcd/lx/m2)	Initial Spec Value (mcd/lx/m2)	Installed Thickness (mils)	Estimated Service Life (months)	Estimated Service Life (years)
White Edge Thermoplastic	150	375	90	100	8.3
White Middle Thermoplastic	150	375	120	76	6.3
Yellow Edge Thermoplastic	100	250	90	105	8.75
Yellow Middle Thermoplastic	100	250	90	65	5.4
White Paint	100	220	15	31	2.6
Yellow Paint	65	200	15	26	2.2

Using an AADT of 10,000 vehicles/day



**ANY QUESTIONS**  
**on**  
**PAVEMENT MARKING**  
**RESEARCH**





# **Pavement Marking Incentive Pay Update**



# **Pavement Marking Incentive Pay Update**

What we look for during our audit:

- Check length, retroreflectivity, bead application, bonding, color, workmanship
- Daytime and nighttime

# **Pavement Marking Incentive Pay Update**

- Any lines not meeting the specifications will not be counted as completed.
- If the segment fails, we notify the DTE.

# **Pavement Marking Incentive Pay Update**

- What we have seen ...
- A lot of good, some bad, Overall Great Work!!
- We have seen a new color- tan cl paint?



# **Pavement Marking Incentive Pay Update**

- One Coat vs. Two Coats

answer: final acceptable line to get credit  
for the striping (one coat or four coats)

# **Pavement Marking Incentive Pay Update**

- We are about to start our audits again around the middle of October. We will be contacting you to set up times.

# Pavement Marking Incentive Pay Update

- What do we do when we reach a plateau?  
“We just can’t improve anymore?”
- Any ideas?



# **Pavement Marking Incentive Pay Update**

- One option could be to average the last 3 years of production and make that our baseline. (road oil method)
- Remember, any changes, ideas, proposals, etc. must be approved by the Pavement Marking Incentive Pay committee



**ANY QUESTIONS**  
**on**  
**PAVEMENT MARKING**  
**INCENTIVE PAY**